QUA-RAE

HERE IS NEWS OF.... THE RADIO ASSOCIATION OF ERIE, INC.

VOLUME VIII, NO. 2 FEBRUARY 1977

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QUA-RAE is published monthly by The RADIO ASSOCIATION OF ERIE. Your comments and support are solicited. Please submit articles by the 15th of the month for publication on the first Friday of the following month.

RAE business meetings are held on the first Thursday of each month at the Red Cross Building basement at 8 PM.

Editor, WA3HDK
Printing, K3QHO
Circulation, WA3HSR
Calendar, WA3UNX

ERIE'S FINEST AMATEUR RADIO NEWSBULLETIN .... BY FAR !

RADIO ASS'N OF ERIE, INC.
P.O. BOX 844
ERIE, PA. 16512

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3

RON JAKUBOWSKI, W2HXP
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ROCHESTER, N Y 14609

The Radio Ass'n. of Erie, Inc. .... Serving area "Hams" for over 27 years.

RAE MINUTES

January 6, 1977

The regular monthly meeting was called to order by the chairman, W3NR, Club President, at 8:00 PM.

Officers present: W3NR, WA3UNX, WA3UCP, K3TDE.
Directors present: K3QHO, W3STK, WA3HSR, WA3KKT.

There were 26 present at the meeting. The treasurer, WA3UCP, reported $980.88 checking account balance and $641.20 in the savings account.

Membership Report - WA3HSR Mike reported three additional paid up members, bringing the total to 82. Included were dues for two members to the repeater committee, which he transferred to Bob WA3UCP.

Don, WA3UNX gave an activities report - January, presentation of the new WR3ACA 34/94 repeater. February, Mr. Will Monola of Mini-Products will be a guest speaker, and a "Get Acquainted" meeting is planned for March.

Mike WA3HSR, reported that the Erie County Field House can be reserved for August 27, 1977 for the "HAM JAMM" and require a $200 deposit.

Frank, W3NR, called for an introduction of each attendee of the meeting and each, in turn, stated their name and call sign.

W3NR reported progress of Civil Defense activities in Erie County relative to the RAE. He met with Mr. Max Gill, the CD Director of Erie County. Plans are progressing for the Emergency Drill scheduled for Sunday, Feburary 27, from 2:00 to 4:00 PM. Letters will be sent to 75 or more 2m FM operators to participate in the drill. Net control station will be W3GV at the Red Cross Building in Erie.

W3NR reported that a school for novice and general class licenses is planned to start February 16 and run for 10 weeks. The location for the school is not yet determined. Possibilities are the downtown YMCA or the Civil Air Patrol building at the Erie Airport.

There was a brief discussion concerning the need for an Equipment Maintenance Man for all RAE equipment. No volunteers were heard.

No new bills were submitted for payment other than the usual $10 to be paid to the typist. There was $43 returned to the treasurer that was excess from the purchase of the new WR3ACA receiver/exciter.

A motion was heard from WA3HDK to proceed with the purchase of a new transmatch for approximately $139 and was properly seconded by K3VLP. After some discussion, the motion was amended to include the cost of a dummy load. The motion, amended, was carried. Rick, WA3LSY, volunteered to build the dummy load.

WB3BRE Don Unruh suggested that the Board of Directors submit a copy of the RAE Constitution and By-Laws, and the rules and regulations of the repeater committee, to an attorney for evaluation and/or change to assure that the repeater committee is legally part of and covered by insurance held by RAE, Incorporated.

K3QHO Jim made a motion that the RF Communications Model 1550, 100 watt power amplifier, now surplus, be advertised for sale in the QUA-RAE and sold to the highest bidder. Bids to be opened in the March repeater committee meeting. The motion was seconded and carried.

A motion to adjourn was heard, seconded and carried. Meeting adjourned at 9:15 PM.

Respectfully submitted,
W. J. Rutledge, K3TDE

REPEATER COMMITTEE MINUTES January 13, 1977

The meeting was called to order at 8:02 PM in the Red Cross Building by WA3SHW, Chairman. Members present were W3NR, WA3EAY, WA3UCP, K3QHO, WA3SHW and WA3TRJ. WA3ZXO and WA3LSY attended as guests.

WA3SHW stated that W3NR had asked to be given the floor at the beginning of the meeting and that he be excused from the balance of the meeting. W3NR was given the floor and reported that he had met with the community leaders on the previous evening, January 12. He presented the Emergency Communications Program to them and reports that it was accepted with great enthusiasm, especially by the Police. Representatives from the hospitals, police, Coast Guard, and National Guard attended. W3NR reminded the committee that the Emergency Drill is scheduled for Sunday, February 27. W3NR informed the committee that W3WDK is the new R.A.E. Maintenance Chairman.

It was requested by W3NR that a new list of names be compiled by the committee, or persons to be allowed access to the WCCK Building so that the list could be submitted to WCCK as per their request. W3NR then relinquished the floor and was excused.

The members present had read the minutes of the December 9 Repeater Committee Meeting in the QUA-RAE so the reading of the December 9 minutes was dispensed with. K3QHO made a motion that the minutes be accepted as published in the QUA-RAE and WA3TRI seconded the motion.

WA3EAY reported that there was a balance of $105.50 in the treasury. WA3UCP reminded the committee that WA3ZXO was still due $37.44 for his expenditures on the update of WR3ACA.

WA3SHW reported that WA3ZXO and WA3LSY had effected repairs to WR3ACA on Monday night, January 10, after the repeater went off the air.

K3QHO reported that equipment at the repeater site belonging to K3NAU had been purchased from him with the exception of the receiver and microphone which will be returned to him. WA3ZXO reported that the expenditure for crystals was approximately $36.00.

The committee then resolved that WA3SHW, K3QHO, WA3PZQ, WA3UCP and WA3TRJ be put on the list of those authorized to enter the WCCK Building.

WA3SHW stated that the problem with National Fuel Gas signals entering the WR3ACA input was still occurring. WA3TRJ offered to call National Fuel Gas again to see if anything could be done. Several different ideas for solving the problem were discussed among them being adding either tone or whistle access to WR3ACA or changing the frequency of the repeater. It was felt by most present that these changes were undesirable and should be tabled pending further discussion and communication with National Fuel Gas.

WA3LSY reported that most major components of the WR3ACA update program were completed and that work on the controller and oscillator would be begun and hopefully completed by the January 20 activities meeting at which he and WA3ZXO will present a program on the updated WR3ACA. K3QHO stated that one of the most significant changes would be the audio resetting time-out timer on the new WR3ACA. WA3SHW asked if work on the controller was being done and then called for volunteers. WA3UCP volunteered to work on the controller. WA3LSY stated that the controller would have 15 to 16 functions but that the receiver would have only 10 which should be adequate.

WA3UCP was then given the floor and informed the committee of the offer by Professional Communications of space on their new tower to be erected in the spring. It was unknown as to what the housing facilities would be at the tower site and what the cost share would be to the R.A.E. Also discussed was the possibility of increased interference due to the closeness of several TV transmitting towers and the National Fuel Gas transmitting antenna. The matter was tabled pending further information on these conditions.

WA3TRJ made a motion to adjourn and K3QHO seconded the motion. The meeting adjourned at 8:39 PM.

Respectfully submitted,
WA3CDL, Secretary

BOARD NOTES - December 28, 1976 WA3HSR

The Board of Directors have announced the new officers for 1977. They are: President, Frank Grace W3NR; Vice President, Don Quiggle WA3UNX; Treasurer, Bob Jackson WA3UCP; Secretary, Bill Rutledge, K3TDE.

At the annual meeting in December the membership elected new directors, who will serve a three-year term from January 1, 1977 through December 31, 1980. Elected were Norma Vanderhoff WA3KKT and Scotty Forbes W3STK.

Because last year's president, W3NR, was reappointed to the same post, the Board will appoint one, one-year director to fill the vacant seat (one-year term).

The Board is also considering at the present time, the following:

1. Appointment of new Capital Fund Trustees.
2. Appointment of Budget & Audit Committees.
3. Appointment of new Property Officer.

FOR SALE - $175 - Regency HR 2MS 2 meter transmitter receiver 20 watt Solid State Mobile or Base. Scans all six receiver channels. Xtaled for 52-52, -16-76, 28-88, 31-91, 34-94, 94-94. K3WTZ 833-9037

W3SN Bart has been a member of RAE for 30 Years.

PREZ SAYS W3NR

It's looking good in all areas for 1977 all groups considered.

CD and Emergency Communications - Sunday, February 27, 2 to 4 PM. For the first time interlocking Erie County via police, fire, CAP, and other services with hams as the main stay. More later.

Activity Programs - Under the direction of Don Quiggle WA3UNX programs now scheduled for January, a look at the new WR3ACA; for February, a Mini-Products; and for March, get-acquainted gathering.

RAE School - Scheduled to start February 16 at the CAP Building at the airport. Classes to run for 10 weeks.

Field Day 77 - Co-Chairman WA3UNX and WA3TYI.

WR3ACA - Progress thanks to WA3LSY and WA3ZXO and the future is looking very good.

RAE Club Rooms - We need to paint that dungeon. How's your painting arm?

That's my report in a nutshell. CU on CW or 2 meter FM or better still at the next meeting. 73's

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SSB Sale, Swap, Buy

FOR SALE - Swan 350C with 117XC AC power supply and 14-117 DC power supply. $375. Older Hickok 3" scope - $20. Also Heath phone patch. Bob Hooper WA3OOM, (814) 866-6516 between 5 and 7 PM.

FOR SALE - Hammarlund HQ-170 receiver. A-1 condition. Hammarlund speaker 11 5/8" x 10 1/4" also A-1. John Geo. Wagner, R. D. #2, Girard, PA. N.E. corner of State and Francis Roads. Phone 774-4695.

1977
APPLICATION FOR MEMBERSHIP
RADIO ASSOCIATION OF ERIE

Name_____ Call_____

Address_____ Class of Call_____

City_____ Zip_____ Member of ARRL? Yes No

Telephone ( ) _____ Home

( ) _____ Work

Dues are $3 per year. Membership runs from October 1, 1976 to December 31, 1977.

Repeater Committee Dues are $10 Additional for 1977 calendar year.

( ) Check here and enclose $13 for combined membership.

RAE'S MEMBERSHIP ROSTER PURGED

WA3HDK BOB

According to our by-laws, members who have not renewed their membership by the end of the January club meeting may no longer vote on club matters. Have you renewed? If not, this will be the last regular issue of QUA-RAE that you will be receiving! Take just a moment to see if your call is listed below. If it is, you are among the progressive group that are working to further their fraternity. If it isn't, you had better get with it. You won't want to miss even one issue of QUA-RAE. Learn what club members are doing; get your own personal summary of business meetings; know when activities are held and participate in them; get ARRL and HAM RADIO Bulletins; and many, many more. You can check with WA3HSR Mike, our membership chairman if your call isn't listed here. He handles ALL membership business. It will only delay things if you go through other members. Address correspondence to RAE, Box 844, Erie, PA 16512.

1977 MEMBERS
As of 12/28/76

WA3UET	WA3ANA	WA3OOM	W3MJV
WN3DKX	K8GAE	WA3EYM	W3TXZ
WN3DFY	W3QPP	K3VLP	WN3BNI
WA3VXZ	WB8VFP	K8IMX	W3LOS
K3TDE	K3KAP	KØOCCI3	W3WDK
WB3CXI	K3VRM	K3QHO	K3PCI
WA3SHW	W3QN	WA3JBO	K3SBU
WA3EAY	WA3RVF	WA2YLV	WB3BRE
WN3DBB	WA3HSR	W3NRY	WB3EQC
WA3TYI	WA3CDL	W5KLV	W3VHP
K3KSB	WB3BKK	W7PJJ	W8GR
WA3ZKM	WB3BKL	W3UQE	K8OHL
WA3TRJ	WA3KKT	WA3QAU	W3PHC
W3YLI	WA3HDK	W3NXK	WA8CWC
WA3UCP	WB3DGB	W3TPW	CHARLES JENKS
W3STK	WA3NCC	W3SN	RICHARD KIDD
K3PLV	WB3FAU	WA3ISN	DAN MITCHELL
WN3DNF	WA3IVK	W3NR	SYLVIA BERCHTOLD
WB3EVY	WN3BNH	WA3UNX	DAVE SCHENK
WB3EWI	WB3EYR	WA3KAI	A. WALTER SPOSKOSKI
WB3DLA	K3ATZ	WA3PFL	JOHN WENEROWICZ
		WA3HPF	JACK THOMPSON

ARRL BULLETINS FROM RTTY COPIED BY K3KAP JERRY

December 30, 1976

FOLLOWING PREVIOUS SUCCESSES, AMSAT HAS SCHEDULED SPECIAL QRP TESTS FOR AMSAT-OSCARS 6 AND 7 DURING THE COMING YEAR. FOR OSCAR 6, SEVERAL JAN. AND FEB. WEDNESDAYS UTC WILL BE ON ONLY FOR STATIONS USING NO MORE THAN 1Ø WATTS EFFECTIVE RADIATED POWER. PARTICIPATING STATIONS SHOULD SO INDICATE DURING THEIR TRANSMISSIONS. THE DATES OF THE QRP-ONLY ORBITS ARE JAN. 5 AND 19TH, FEB. 2 AND 16TH. OTHER WEDNESDAYS WILL BE OFF DAYS. UNTIL FURTHER NOTICE, ALL ORBITS OF AMSAT-OSCAR 7 MODE B FALLING ON MONDAYS UTC WILL BE FOR QRP ONLY. STATIONS USING OSCAR 7 ON THESE ORBITS SHOULD USE NO MORE THAN 1Ø WATTS ERP. IN ORDER TO CONSERVE THE SATELLITE'S BATTERY VOLTAGE AMSAT ASKS THAT ALL MODE B USERS RUN AS LITTLE POWER AS POSSIBLE AT ALL TIMES. AR

Bulletin Number 66 - January 19, 1977

IN A PUBLIC NOTICE RELEASED JANUARY 10, THE FCC ANNOUNCED THE IMPLEMENTATION OF AN INSTANT UPGRADING PROGRAM. EFFECTIVE MARCH 1, ENGINEERS IN CHARGE OF THE VARIOUS FCC FIELD OFFICES WILL BE DELEGATED AUTHORITY TO ISSUE INTERIM AMATEUR PERMITS TO APPLICANTS FOR AMATEUR OPERATOR LICENSES WHO SUCCESSFULLY COMPLETE THE EXAMINATION AND WHO ALREADY HOLD AN AMATEUR LICENSE. THIS INTERIM PERMIT WILL BE GOOD FOR 90 DAYS OR UNTIL THE NEW LICENSE IS ISSUED, WHICHEVER COMES SOONER. THE INTERIM PERMIT WILL INDICATE A SPECIAL ID WHICH MUST BE APPENDED TO THE AMATEUR STATION CALL WHENEVER THE OPERATOR UTILIZES HIS NEWLY EARNED PRIVILEGES. FURTHER DETAILS WILL BE CARRIED OVER W1AW AND IN QST WHEN AVAILABLE. WE EMPHASIZE THAT THIS INSTANT UPGRADING PROGRAM DOES NOT TAKE EFFECT UNTIL MARCH 1.

Bulletin Number 627 - January 6, 1977

THE FEDERAL COMMUNICATIONS COMMISSION HAS SUSPENDED RADIO LICENSE FEES, EFFECTIVE JANUARY 1, 1977. THIS IS AN ACROSS-THE-BOARD SUSPENSION COVERING ALL RADIO LICENSES GRANTED BY THE FCC. IN OTHER WORDS, SEND NO MONEY FOR ANY BUSINESS WITH THE FCC. THERE IS NO CHARGE FOR APPLICATION FOR A NEW LICENSE, RENEWAL OR MODIFICATION OF A CURRENTLY HELD LICENSE, APPLICATION FOR A TWO-LETTER OR SPECIFIC CALL SIGN, OR ANY SIMILAR AMATEUR LICENSING MATTER.

ANYONE FOR CW? WA3UNX DON

First of all, let's correct the DX calls published in my last month's article. Some of them appeared to be rare DX but guess the typist has a rough time reading my copy.

The following stations were worked on 15 meters mostly between 2 and 5 PM.

KP4EDX - Puerto Rico	G3VO - England
VP2VDJ - British Virgin Islands	VP2LDU - St. Lucia
KZ5VV - Canal Zone	PT2DW/5 - Brazil
PYØZAE - Trinidad Island	HC2SL - Equador
KG4JS - Guantamo Bay	VP2EEK - Anguilla
OX3AB - Greenland	CO6AH - Cuba
OA4AHA - Peru	VP1KS - British Honduras (Belize)

Have been trying to catch JA1PIG/PZ in Surinam but no luck yet.

Forty meters is very crowded during the day with excellent conditions. Listening on 80 meters for our new novices but haven't heard any.

Congratulations to BART W3SN on his bicentennial W.A.S. Number 50 for me was Louisiana in September.

Welcome to Don K3GYD and his very interesting article on DX. Good luck and keep them coming.

See you on the CW bands.

operations will establish links. A January meeting will be called for a reorganization of those involved in emergency operators. A geographical breakdown is as follows: West County, W3HLM Don; East, WA3OOT, Ed; Central, WB3CXI Clarence; South, WA3USH Dick; WA3HDK Bob, Mars Coordinator; WA3KKT Norma, Assistant Deputy Radio Officer; Erie City, W3NR Frank, Deputy Radio Officer; WA3ZYO Chris; and W3STK Scotty. All RACES members will participate. RACES licenses will be issued by CD Director Max Gill who plans to attend some of our meetings. Also, in February, an emergency hospital drill will be conducted from all Erie County Hospitals plus Erie International Airport.

(Continued on Page 10)

HR REPORTS...an index. Complete report available at the clubhouse. by WA3UCP

Number 126 - December 10, 1076

AMATEUR FREQUENCY ALLOCATIONS proposed by FCC for 1979 WARC are listed in summary form. The Notice of Inquiry shows two new bands, 160-190 kHz LF and 902-928, 935-938 MHz UHF but the most significant change is the moving of several lower band edges down. ARRL is offering an abstract covering Amateur changes for SASE with 24¢ postage.

PROSE WALKER, W4BW and former FCC Amateur and Citizens chief given a going-away party by 30 Washington area hams prior to his departure for sunny Florida.

PERSONAL COMMUNICATIONS FOUNDATION and Ad Hoc Committee for Preservation and Perpetuation of Base Station Antennas have met to join forces and will complement each other.

LONG WAVE CLUB has a monthly bulletin for LF enthusiasts (540 kHz and down.)

ROCHESTER HAMFEST will run three days this year, May 20-22. Write "Hamfest", Box 1388, Rochester, NY 14603 to get on mailing list.

HEATHKIT ANNOUNCES new GR-1131, an 8-channel high band scanner for 146-174 MHz at $89.95.

NOVICE CLASS INSTRUCTORS can get in bind if the exams are lost in the mail. WB9JEJ has been hassled about exams lost in mail and threatened with "appropriate administrative action against your Amateur station license" unless he returns never-received exams.

DECEMBER 12 MARKS ANNIVERSARY of OSCAR 1, launched back in 1961.

A "CALLING" REPEATER on 146.34-94 proposed for Milwaukee where 94 is heavily used simplex. Users would be limited to 15 seconds to make contact and move to another channel.

WITH WINTER THE AMATEUR'S TRADITIONAL time for antenna work, be warned that more than 200 deaths by electrocuation occurred during past three years by antenna installers.

DX NOTES - A4XVK showing up frequently on 14027 between 1400 and 1500 Z; FB8BG worked Dec. 3 on 14035 is on Kerguelen; 7GIST good DX on Dec. 6 until he accidentally signed W5---!

DXCC survey by ARRL sent to 403 DXers; others can participate by sending business size SASE with 13¢ to W9KNI of DXAC.

Number 127 - December 17, 1976

SHIFTING 15 METERS DOWN TO 20.700-21.200 MHz proposed by FCC may not come about. Maritime people prefer to take 20-650-21.000 and leave us our band as it stands. Of more concern is 146-148 MHz wanted by aviation interests and 220-225 wanted to be shared by CBers.

PERSONAL RADIO SERVICE is new name of Citizens Radio Service encompassing Class A General Mobile Radio Service, Class C Radio Control Radio Service and Class D Citizens Band Radio Service. New name is effective January 27.

PRESIDENTIAL RELAY of 45 governors' messages still not completed due to inability of Carter's staff to come up with an appropriate date. Five governors declined to participate.

IEEE'S ELECTRO 77 in New York next April will have two amateur radio sessions, one on antenna design and the other on RFI and TVI.

MIDLAND'S SYNTHESIZED 510, 1 25 watt 2 meter rig will sell for $399.

WILSON'S NEW SYNTHESIZED PORTABLE, WE800, is 2 meter shoulder-strap rig running two watts out covering the band in 5 KHz steps and is awaiting FCC certification.

UPDATED 1x2 CALLSIGN LIST is available from ARRL for SASE with 24¢ postage.

SMOKEY REPORTS DON'T VIOLATE the law as a judge in Pontiac, Illinois ruled. A CBer was cited by a state trooper for obstructing a police officer after he'd reported the trooper's location on the air. The state is reported to be considering an appeal.

VHF/UHF EXPERIMENTERS will find two very worthwhile articles in December issue of MicroWaves.

NATIONAL RADIO will be reintroducing amateur radio products at Consumer Electronics show in Chicago in January along with a $1600 super CB set!

DX NOTES - 8Z4, the Saudi Arabia/Iraq Neutral Zone, due on the air shortly; A6XP is on daily around 1400Z tx 14195 rx 14205; Macquarrie Island available about 14240 between 0400 and 0800Z by listening for VKØAC; FR7BE shows frequently on 21030; KM6EC is a YL on 14320 daily from Midway.

Number 128 - December 24, 1976

SUSPENSION OF FCC LICENSE FEES go into effect January 1, 1977. Duration of suspension will probably depend on Congressional action.

DENTRON'S MEETING OF LINEAR amplifier manufacturers was scheduled at SAROC. Rumors or a new FCC rule still shaking the grapevines with alternatives being an outright ban, FCC type acceptance, or tight controls on sale to licensed authorized users.

FURTHER DEREGULATION IS expected in licensing of repeaters eliminating complicated applications and distinctive callsigns as well as deletion of frequency sub-allocations.

WARC 1979 AMATEUR RADIO WORKING GROUP will have an all day meeting January 25 at the FCC offices in Washington to go over the band proposals.

ARRL HAS NEW CODE KIT consisting of two 60-minute cassettes and an instruction booklet at $8.00.

PC 77 SEMINARS on February 15 will feature two FCC talks, "New FCC Rules, Licensing, Trends and a Look at the Future" and "New Technical Requirements and Standards."

REQUESTS FOR MULTIPLE NOVICE exams must be accompanied by the name and necessary qualifications of the person administering the exams, names of individuals to be examined and the date you expect to administer the exams.

69 "N" 1x2 CALLSIGNS have been assigned so far but not issued yet.

TWO BIG CB GROUPS, ALERT and ACBOA have announced their merger.

"CB" BREAKERS on amateur bands can prove very worthwhile following up. A ham told such a breaker on a Massachusetts repeater he was a candidate for FCC problems and obtained his phone number. It ultimately broke up a major burglary ring!

NASA'S 1979 SPACE SHUTTLE a good possibility for an amateur satellite launch.

REACTION TO DOC's PROPOSAL for new Canadian amateur license classes is being gauged by DOC officials visiting various Canadian amateur clubs.

TAX BREAKS EXIST for amateurs involved in some public service activities who spend personal funds on public service use. Check with your accountant or tax attorney.

OVER SEVEN MILLION CB LICENSES issued at end of October, the FCC reports.

DX NOTES - FR7AI/E on Europa quite active around 14030 after 1800Z; 9D prefixes being hea heard are commenoratives from Iran; D6A and FH8 may be submitted for DXCC credit after March 1, 1977; S79 is reported to be Seychelles new callsign; P29EJ has been active weekdays around 1945Z just under 14030; CEØAE has been active on 7010 around 0800Z.

W1AW'S BIG SIGNAL will be bigger when stacked yagis for 20 and single yagi for 40 go up.

Number 129 - December 31. 1976

PROPOSED FURTHER DEREGULATION in the form of Docket 21033 proposes to permit repeater, auxiliary and remote control operation of amateur stations under primary, secondary and club station licenses, and to continue the issuance of separate licenses for such operations; delete the requirements for recording transmissions on open repeaters; and allow amateur licensees greater flexibility in the choice of frequencies for repeater use.

AUTOMATIC LICENSE EXPIRATION NOTICES being considered by FCC for CBers.

K2VN IS A NOVICE CALL issued to Chester Charles, 78, who held 2VN back in 1914. Since WN calls no longer exist, he is eligible for this first novice 1x2 call.

NIPPON ELECTRIC introduced new PLL frequency-synthesizer chip to Japanese radio manufacturers. The tiny CMOS ship includes oscillator, divider, phase detector, filter and converter circuits and should lead to interesting experimentation.

FT-101 SERVICE MANUAL AVAILABLE in February is 200 page technical manual priced at $25.00.

PERSONAL COMMUNICATIONS FOUNDATION is now accepting applications for associate, full, supporting, and life-sustaining memberships.

NEWLY ISSUED PROPOSALS FROM AMATEURS concerning changes in the Amateur Service are: 1. Provide that each state have a distinctive callsign; 2. Permit amateurs to share Class D CB band; 3. Permit temporary amateur licenses to be issued; and 4. Permit any former amateur to obtain a new license without taking another exam.

TECHNICIAN CLASS LICENSEES are eligible for Official Relay Station status as well as Official Observer, Emergency Coordinator, and Official Bulletin Station in ARRL.

FULLY SYNTHESIZED SSB TRANSCEIVER covering 80-10 announced by CIR Industries. Rig covers over 40,000 "channels" in 100 Hz increments, LED readout, 200-watt PEP at $995.

DX NOTES: VP8MS on South Georgia Island heard at 2300Z between 14.210 and .220; ZE6JL trying to get Africana Net going again on 21.355 MHz from 1700Z; FL8 due for independence by mid 77; SVØWZ on Rhodes heard Sundays at 0530Z, 3597 SSB.

December 16, 1976 RAE Minutes (Continued from Page 7)

Drill control is planned from the Erie Chapter, American Red Cross Building.

W3NR Frank Grace received a letter of appointment to the Advisory Board from the School Board.

WA3UNX reported an attendance of 49 at the club Christmas dinner held at the Stockholm Restaurant on December 11. Don also reported on a successful Post Office tour recently conducted. For those interested, WA3AXO Maurice and WA3LSY Rick will conduct a repeater demonstration on January 20, and anyone who is interested is invited to bring their gear.

W3WBA Will Monola will conduct an antenna session at 8:00 PM on February 17th.

WA3UCP Bob, Repeater Committee Chairman, reported that they had adopted repeater rules to assure stability. WA3ZXO reported on the work being done on the repeater by himself and WA3LSY. One bid was received from WA3HLN for the building at the CD Farm and the bid will be given to the Board of Directors for decision.

QUA-RAE REPORT - Bob requested a second editor or anyone interested in any other job. He would also appreciate volunteers to put the paper together.

WA3HSR Mike, Membership Chairman, reported a number of 60 so far for 1977.

WA3TYI Dick was appointed refreshment chairman and will name his own committee. W3AQI was requested to go through the bank box and clean house.

W3NR showed a stamp available of call, name and address. All interested, please advise W3NR and they may be purchased thru the club for $3.18 each.

K3QHO Jim is trustee of W3GV replacing K3NAU who now resides in Rochester, N.Y.

Hamfest Committee report by WA3UCP Bob and WA3HSR Mike. They met with the Erie County Fieldhouse Director and found plenty of tables, chairs, parking, etc., but kitchen facilities are handled by an outside concern. Cost of fieldhouse will be $750 per day and the designated date is August 27, 1977. Motion by WA3HDK Bob that the Erie HAM JAM be held at Erie Co. Fieldhouse on August 27, seconded by WA3HSR Mike and carried.

It was suggested by W3NR that the RAE underwrite the cost of auto patch for one year subject to renewal. WA3LSY Rick and WA3ZXO Maurice are going to donate auto patch equipment regardless of whether it will be used now or later. WA3LSY Rick agreed to find out cost of auto patch use.

Election was then held for Board of Directors and W3STK Scotty and WA3KKT Norma were elected for three-year terms.

Officers for 1977 are the following: President, W3NR Frank Grace; Vice President, WA3UNX Don Quiggle; Secretary, K3TDE Bill Rutledge; Treasurer, WA3UCP Bob Jackson.

Meeting was then adjourned for repeater committee election with WA3UCP in the chair. Elected were: Repeater Chairman, WA3SHW Mike; Chairman in charge of technical sub-committee, K3QHO Jim; Secretary, WA3CDL Bill; Treasurer, WA3EAY Marty; Secretary, WA3KKT Norma.

Meeting adjourned at 9:49 PM and refreshments were then served.

Respectfully submitted,
Norma Vanderhoff, WA3KKT

A FINAL FINAL

WA3HDK BOB

Enclosed in this issue is the long awaited Bylaws for both the main club and also the repeater committee. Please save these important documents so that you may refer to them when necessary.

I don't think it is necessary to remind you that QUA-RAE is your forum. Use it to express your views and interests. We especially need constructive articles--on ham radio certainly, but other fields may be interesting to our readers. For instance, next month we will carry an article from a Broadcast Band DXer who has logged 47 states! You will just have to read next month's article to see which continental state he missed.

I might mention that we have had to become more strict with our deadlines. It seems that making an exception occasionally quickly becomes a routine matter. It got so bad that Jim K3QHO, our printer, was getting his masters on the night before club meeting. That's no way to run a ship! Sooo, we're going to stick more strictly to deadlines in the future. There is no reason why regular stuff can't be here by the 15th of each month; repeater minutes by the 20th; and any EMERGENCY announcements by the 20th also. Please, we need your help, but we need it on a time schedule.

Speaking of help, I must remind you that I intend to do a fair amount of camping this summer, and unless someone comes forward to edit the paper over the summer, you will probably get only one or two issues over the summer. As a matter of fact, we desperately need several more people to keep the paper interesting. The way I would like to do it is to have a newspaper staff meeting on each fourth Thursday. We could blitz the group for ideas, share the workload and perhaps get some pictures back into the QUA-RAE. As a matter of fact, anyone interested in any aspect of the newsletter should make themselves known. You can have <u>any</u> position you want--even the editorship. I don't mean to imply I'm quitting--only that anyone can have any job. The only requirement is that you do your job.

Don't forget that if you haven't renewed your membership, you will lose many benefits starting now. Remember we start work on a new membership directory in February. You do want your name, address, and telephone number on the list, don't you? 73's for now. Keep on hamming!!

MAJOR ARRL OPERATING EVENTS AND CONVENTIONS – 1977

(The month shown indicates the issue of *QST* carrying contest rules. Check *QST* monthly for updates.)

JANUARY

1 SKN (Dec.)
4 West Coast Qual. Run
6-9 *SAROC, Las Vegas*
8-9 VHF SS (Dec.)
10 W1AW Qual. Run
15-16 CD Party, cw
22-23 CD Party, phone
FL State Conv., Miami
29-30 SET (Dec.)

FEBRUARY

2 West Coast Qual. Run
4-6 DX Competition, phone (Dec.)
4-13 Novice Roundup (Jan.)
12 FMT (Jan.)
12-13 *SE Div. Conv., Orlando*
15 W1AW Qual. Run
18-20 DX Competition, cw (Dec.)

MARCH

1 West Coast Qual. Run
4-6 DX Competition, phone (Dec.)
16 W1AW Qual. Run
18-20 DX Competition, cw (Dec.)
Vero Beach Hamfest, FL
Ft. Walton Beach Hamfest, FL
21 W1AW Morning Qual. Run

APRIL

6 West Coast Qual. Run
14 W1AW Qual. Run
16-17 CD Party, cw
23-24 CD Party, phone
24 W1AW Special Qual. Run
30-May 1 *Dayton Hamvention*

MAY

3 West Coast Qual. Run
13 FMT (Apr.)
16 W1AW Qual. Run
21-22 *NY State Conv., Rochester*
WI State Conv., Lake Delton
28-29 *Durhamfest, NC*
TN State Conv., Knoxville

JUNE

1 West Coast Qual. Run
3-5 *National Conv., Toronto*
5 *Starved Rock RC Hamfest, Princeton, IL*
11-12 VHF QSO Party (May)
12 *Six Meter Club of Chicago Hamfest, Willow Spring, IL*
14 W1AW Qual. Run (+40 wpm)
18-19 *GA State/Atlanta Hamfestival*
19-25 Amateur Radio Week
22 W1AW Morning Qual. Run
25-26 Field Day (May)

JULY

4 SKN (June)
WV State Conv., Jackson's Mill
5 West Coast Qual. Run
9-10 IARU Radiosport Championship (June)
Roanoke Div. Conv., Norfolk
10 *Indianapolis Hamfest*
13 W1AW Qual. Run
16-17 *West Gulf Div. Conv., Austin*
Western Carolina Hamfest, Ashville
30-31 *NW Div. Conv., Seattle*
Communications Expo '77/Hamfest, Greensboro, NC

AUGUST

3 West Coast Qual. Run
14 *Hamfesters Radio Club Hamfest, Willow Spring, IL*
18 W1AW Qual. Run
27-28 *Radio Expo, Chicago*

SEPTEMBER

6 West Coast Qual. Run (+40 wpm)
10-11 VHF QSO Party (Aug.)
Melbourne, FL Hamfest
12 W1AW Qual. Run
17 FMT (Aug.)
20 W1AW Morning Qual. Run
23-25 *NE Div. Conv., Hartford*

OCTOBER

1-2 "Open" CD Party, cw (Sept.)
5 West Coast Qual. Run
8-9 *Midwest Div. Conv., Wichita*
SW Div. Conv., Santa Maria
15-16 "Open" CD Party, phone (Sept.)
18 W1AW Qual. Run
23 W1AW Special Qual. Run

NOVEMBER

1 West Coast Qual. Run
4 FMT (Oct.)
5-6 Sweepstakes, cw (Oct.)
16 W1AW Qual. Run
19-20 Sweepstakes, phone (Oct.)

DECEMBER

3-4 160-Meter Contest (Nov.)
7 West Coast Qual. Run
10-11 10-Meter Contest (Nov.)
15 W1AW Qual. Run (+40 wpm)
28 W1AW Morning Qual. Run
31 SKN (Dec.)

JANUARY 1977

SUN	MON	TUE	WED	THU	FRI	SAT
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23/30	24/31	25	26	27	28	29

FEBRUARY 1977

MARCH 1977

SUN	MON	TUE	WED	THU	FRI	SAT
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 PM 6 MTR NET 50-12 SSB	9 PM DAILY JAMESTOWN CD NET 146.19/79	1 7 PM RAC CORRY	2 9:30 PM DAILY WNY TFC NET 146.04/64	3 8 PM Full Moon RAE BUSINESS MEETING - ARC	4	5 DX COMPETITION FONE NOVICE ROUNDUP FEB. 5 - FEB. 13
6 8 PM TRI-STATE EMERGENCY ERIE 29.0	7	8 7 PM RAC BUSINESS MEETING Boy Scouts Founded, 1910	9 6:15 PM WEEKLY BRADFORD NET 146.25/85	10 8 PM Last Quarter REPEATER COMM. MEETING ARC	11 Thomas Edison, 1847	12 NEW HAMPSHIRE QSO PARTY Abraham Lincoln, 1809
13 7:30 PM LAKE ERIE EMERGENCY NET 146.34/94 FREQ. MEASING TEST	14 St. Valentine's Day	15 7 PM RAC DEADLINE FOR QUA-RAE ARTICLES	16 7-9:30 PM RAE CLASSES C.A.P. BLDG. AT AIRPORT	17 7:30 PM New Moon ACTIVITY NITE MINI-PRODUCTS BY WILL MINOLA ARC	18	19 DX COMPETITION CW YL/OM CONTEST FONE
20 7 PM CORRY 2 MTR 146.69/09 John Glenn Orbital Space Flight, 1962	21 George Washington, 1732 (Monday Holiday)	22 7 PM RAC George Washington, 1732 (Traditional)	23 6 PM WEEKLY BRADFORD 6 MTR 50.110 RAE CLASSES Ash Wednesday	24	25 First Quarter	26 FRENCH CONTEST FONE
27 8:30 PM MEADVILLE 2 MTR .04/64	28					

He who does something at the head of one regiment will eclipse him who does nothing at the head of a hundred.

A Lincoln